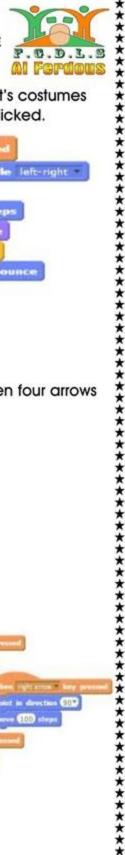
rotation style left-right

nove 10 steps

if on edge, bounce

ext costume



Q1: Write steps to make a sprit walk to the edge with different sprit's costumes then bounce in the same direction.. when the green flag is clicked.

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

Steps:

- From <u>Event Blocks</u>
  - drag (when green flag is clicked)
- From Motion Blocks
  - drag (set rotation style left to right)
- From Control Blocks
  - drag (Repeat forever block)
  - From Motion blocks.. drag (Move 10 steps)
  - From Look blocks.. drag (next costume)
  - From <u>Control blocks</u>.. drag (Wait 0.1 second)
  - From <u>Motion blocks</u>.. drag.. (If on edge, bounce)

Q2: Write steps to make a sprite go to different four directions when four arrows are clicked.

#### Steps:

- 1. From Event blocks drag (When the up arrow key is pressed)
  - From Motion Block:
    - drag (Point in direction up 0)
    - drag (Move 100 steps)
- 2. From Event blocks drag (When the down arrow key is pressed)
  - From Motion Block:
    - drag (Point in direction down 180)
    - drag (Move 100 steps)
- 3. From Event blocks drag (When the left arrow key is pressed)
  - From <u>Motion Block</u>:
    - drag (Point in direction left -90)
    - drag (Move 100 steps)
- From <u>Event blocks</u> drag

(When the right arrow key is pressed)

- From Motion Block:
  - drag (Point in direction right 90)
  - drag (Move 100 steps)



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Q3: Write steps to draw a red line with size 10. Steps:

- 1. From Event blocks drag (When the space key is pressed)
- 2. From Pen blocks drag (Clear)
  - Then drag (pen down)
  - Then drag (set pen color to °)
  - Then drag (set pen size to 10)
- 3. From Motion blocks drag (move 200 steps)

Q4: Write steps to draw a circle.

## Steps:

- From <u>Event blocks</u> drag (when green flag clicked)
- 2- From Pen blocks drag (clear)
  - Then drag (pen down)
- 3- From Control blocks drag (repeat 72)
- 4- From Motion blocks drag (move 10 steps)
  - Then drag (turn 5 degrees)

Q5: Write steps to draw a triangle.

## Steps:

- From Event blocks drag (when green flag clicked)
- From <u>Pen blocks</u> drag (clear)
  - Then drag (pen down)
- 3. From Control blocks drag (repeat 3)
- 4. From Motion blocks drag (move 200 steps)
  - Then drag (turn 120 degrees)

Q6: Write steps to play a sound when a cat touches a dog.

Steps:

- Add a new sprite from library (dog2)
- From Event blocks drag (when green flag clicked)
- From <u>Control blocks</u> drag (forever)
- From <u>Motion blocks</u> drag (move 10 steps)
- From <u>Control blocks</u> drag (wait 0.1 secs)
  - Then drag (If then block)
  - From <u>Sense blocks</u> drag (touching dog2)
  - From sound blocks drag (play sound meow)

```
when space I key pressed clear pen down set pen color to set pen size to 10 move 200 steps
```

```
when clicked
clear
pen down
repeat 72
niove 10 steps
turn (4 5 degrees
```

```
when clicked
clear
pen down
repeat 3
move 200 steps
turn (* 120 degrees
```

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Q7: Write steps to draw a square.

### Steps:

- From Event blocks drag (when green flag clicked)
- From Pen blocks drag (clear)
  - Then drag (pen down)
- From Control blocks drag (repeat 4)
- From Motion blocks drag (move 100 steps)
  - Then drag (turn 90 degrees)

```
clear
      1
  pen down
  move 100 steps
  turn ( 90 degree
```

Q8: Write steps to draw a hexagonal.

# Steps:

- From <u>Event blocks</u> drag (when green flag clicked)
- From Pen blocks drag (clear)
  - Then drag (pen down)
- From Control blocks drag (repeat 6)
- From Motion blocks drag (move 100 steps)
  - Then drag (turn 60 degrees)

```
clicked
    6
pen down
move (100) steps
turn (4 60 degree
```

Note:

\*

Angle of rotation = 360° degrees number of ribs

> زاوية الدوران = <u>٣٦٠ درجه</u> عدد الأضلاع

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